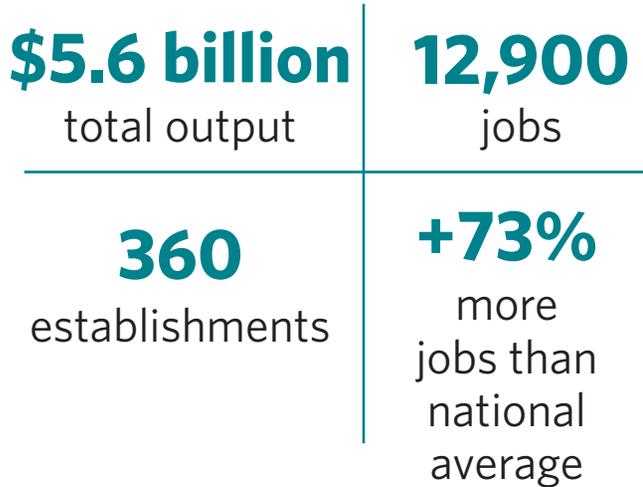


# Downstream Chemicals

This cluster manufactures complex chemical products for end users. These products include adhesives, beauty products, cleaners, dyes, paints, and lubricating oils. The technical report, Metropolitan Chicago's traded industry clusters, offers extensive data on the characteristics and performance of the Chicago region's core industrial assets since 2001, available for download at <https://cmap.is/Traded-Clusters>.

In the Chicago region in 2017, this cluster consisted of



Source: CMAP analysis of Economic Modeling Specialists International data (Emsi 2018.4).

Workers in this cluster tend to be **more** racially diverse than the regional labor force.

- 52%** non-white
- 37%** female
- 39%** over age 50

**4%** commute by transit

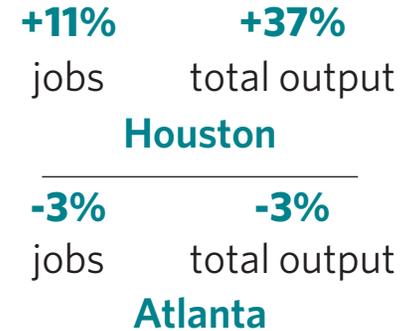


Source: CMAP analysis of Integrated Public Use Microdata Series, 2017 American Community Survey data.

## Largest occupations

- Machine Setters
- Filling Machiner Operators
- Production Workers
- First-Line Supervisors
- Material Movers

In recent years, the cluster's competitive position **weakened** as it became **less specialized** in the national context.



Source: CMAP analysis of Economic Modeling Specialists International data (Emsi 2018.4).  
Note: Job change is from 2001-17, and total output change is from 2007-17.

Middle-skill workers have **greater** opportunity than the regional average.



**36%**  
of workers have an associate's degree or higher



**52%**  
of jobs typically require at least 2 months of on-the-job training

Source: CMAP analysis of Integrated Public Use Microdata Series, 2017 American Community Survey and Economic Modeling Specialists International data (Emsi 2018.4).

In 2016, this cluster generated approximately

**\$39.1 billion**

in freight shipments that originate, terminate, or circulate regionally.

## Freight mode share, by value



## Freight trade geography, by value



**8%**  
Chicago region



**57%**  
Midwest



**28%**  
Rest of U.S.



**6%**  
Global

Source: CMAP analysis of Freight Analysis Framework data (FAF 4.4.1).  
Note: Data includes only the Illinois portion of the U.S. Census Bureau combined statistical area. Freight data is not provided for service clusters.